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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,070	09/29/2004	Vladimir Vladimirovich Kostin	71545	4275
23872	7590 05/03/2006	EXAMINER		
MCGLEW &	TUTTLE, PC	HITESHEW, FELISA CARLA		
P.O. BOX 9227 SCARBOROUGH STATION SCARBOROUGH, NY 10510-9227			ART UNIT	PAPER NUMBER
			1722	TALERIOMBER
Schwolot	7011, 111 10510 7227			
		DATE MAILED: 05/03/200	DATE MAILED: 05/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

-	Application No.	Applicant(s)					
Office Action Summary	10/510,070	KOSTIN, VLADIMIR VLADIMIROVICH					
Office Action Summary	Examiner	Art Unit					
	Felisa C. Hiteshew	1722					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
, ,	ALCOST TO EVOIDE - MONTH	(O) OB THEET (OO) BAYO					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C: § 133).					
Status							
1) Responsive to communication(s) filed on	_•						
	· · · · · · · · · · · · · · · · · · ·						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims		•					
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-7</u> is/are rejected.	6)⊠ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) D Notice of Informal P	Patent Application (PTO-152)					
Paper No(s)/Mail Date <u>see attached paper</u> . 6) Other:							

## **Priority**

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### Information Disclosure Statement

The Information Disclosure Statement under 37 C.F.R. 1.97 has been received and reviewed. However, the information disclosure is not deemed to be pertinent over the prior art of record.

## Claim Rejections - 35 USC § 112

2. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 2, the terminology "characterized in that..." is being considered vague and indefinite. The terminology "...characterized in that..." does not meet up to date U.S. Patent practice standards. Is the claim language open or closed? The terminology is vague and indefinite.

In claim 2, line 1, the terminology "characterized in that..." is being considered vague and indefinite. The terminology "...characterized in that..." does not meet up to date U.S. Patent practice standards. Is the claim language open or closed? The terminology is vague and indefinite.

In claim 3, line 1, the terminology "characterized in that..." is being considered vague and indefinite. The terminology "...characterized in that..." does not meet up to

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date U.S. Patent practice standards. Is the claim language open or closed? The terminology is vague and indefinite.

In claim 4, lines 1-2 the terminology "characterized in that..." is being considered vague and indefinite. The terminology "...characterized in that..." does not meet up to date U.S. Patent practice standards. Is the claim language open or closed? The terminology is vague and indefinite.

In claim 5, lines 1- 2, the terminology "characterized in that…" is being considered vague and indefinite. The terminology "...characterized in that…" does not meet up to date U.S. Patent practice standards. Is the claim language open or closed? The terminology is vague and indefinite.

In claim 6 lines 1-2, the terminology "characterized in that..." is being considered vague and indefinite. The terminology "...characterized in that..." does not meet up to date U.S. Patent practice standards. Is the claim language open or closed? The terminology is vague and indefinite.

In claim 7, lines 1- 2, the terminology "characterized in that…" is being considered vague and indefinite. The terminology "...characterized in that…" does not meet up to date U.S. Patent practice standards. Is the claim language open or closed? The terminology is vague and indefinite.

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### Allowable Subject Matter

- 3. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).
- 4. The following is a statement of reasons for the indication of allowable subject matter: The most relevant prior art of reference is that of Japanese abstract 10291896A. However, it does not teach nor fairly suggest singularly or in any combination thereof an apparatus for pulling single crystals, wherein the know device has a heater made out of a flexible carbon-containing material in the form of a cylinder, whose ends are secured between coaxially arranged rigid rings made of a carbon material, and connected to a power source, and also by determining the thickness of the heater wall by the equation:

$$\delta * \rho * c = 500-8599 \text{ J/m}^2$$

 $\boldsymbol{\delta}$  is the thickness of the wall of the heater, in m;

 $\rho$  is the density of the material of which the heater is made, in kg/m²

c is the specific heat capacity (at working temperature), J/kg\*K, of the material of which the heater is made.

FELISA HITESHEW PRIMARY EXAMINER

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